FACT SHEET FOR STATE WASTE DISCHARGE PERMIT ST- 8074

Open Skies Resort

SUMMARY

Applicant: **Pondoray Shores Water and Sewer District**

Facility Name And Address: **Open Skies Resort**
339 Open Skies Road
Newport, WA 99156

Type of Treatment: **POTW; single-cell earthen-lined lagoon system.**

Treatment Plant: **NW ¼ of the NE ¼, Section 27, T 32N, R 44 E.W.M.**

Latitude: **48° 15' 15"**
Longitude: **117° 13' 33.5" W**

HISTORY:

Pondoray Shores, formerly known as Open Skies Resorts, is a small vacation home development on the east shore of the Pend Oreille River, across the river from Dalkena. The site is approximately 40 miles north of Spokane and 18 miles northwest of Newport. The development was originally platted in 1970 and has approximately 50 platted home sites and 40 camp sites that can discharge to the existing sewer system.

Permit Amendment:

The permittee has sent the department a written request to amend the permit. The requested changes and the rationale are:

1. The water and sewer district is delinquent in meeting the December 2004 deadline for conversion to a new community drainfield system for wastewater treatment and disposal which would have eliminated the need for renewal of the current State Waste Discharge Permit. Construction has been delayed due to the funding application process for the USDA Rural Development grant/loan finance package, which has entailed a lengthy environmental review process.
2. The effluent limits contained in the permit are not applicable, as the sampling point is at the influent pump station.
3. The facility is not able to meet the requirement for flow monitoring as there is no working flow meter.

4. Summer residents contribute to the sewer system during the months May through September and are gone by October.
5. Monitoring for pH at the lagoon not feasible as the site is largely inaccessible.

Permittee Modification:

The Department is proposing to modify the permit in the following way:

1. Extend submittal dates pertaining to ground water studies and an engineering report three additional years, giving the facility time to either complete the drainfield and eliminate the need for a State Waste Discharge Permit, or complete the studies and the report in a timely fashion as required by the amended permit.
2. Eliminate the effluent monitoring requirements. The monitoring is conducted at the influent pump station and the current effluent limits do not apply.
3. Eliminate the requirement for flow measurement. The existing flow meter is not in service and would require a substantial overhaul to put it in service. The meter will not be necessary when the drainfield system is placed into service, and based on the current number of residents, it would be highly unlikely that the facility would ever attain the design flow of 13,000 gallons per day.
4. The facility is seasonal, and largely unoccupied during the cold weather and winter months. Monthly monitoring should conclude in September.
5. Monitoring for pH shall occur at the influent pump station.

General Condition G3 and G4 provide for the modification of the permit when good cause is evident and require submission of a new permit application or a supplement to the application. The letter requesting the change and the approved engineering report are an adequate supplement and the General Conditions have been complied with.

Ecology has determined that the permit should be modified as indicated above.

Public Involvement Information

The Department has tentatively determined to modify a permit to the applicant listed on page 1 of this fact sheet amendment. The permit contains conditions and effluent limitations which are described in the rest of this fact sheet.

The Department will publish a Public Notice of Draft (PNOD) on April 20, 2006, in the Newport Miner to inform the public that a draft permit and fact sheet are available for review. Interested persons are invited to submit written comments regarding the draft permit. The draft permit, fact sheet, and related documents are available for inspection and copying between the hours of 8:00 a.m. and 5:00 p.m. weekdays, by appointment, at the regional office listed below.

Written comments should be mailed to:

Water Quality Permit Coordinator
Department of Ecology
Eastern Regional Office
4601 N. Monroe Street
Spokane, WA 99205-1295

Any interested party may comment on the draft permit or request a public hearing on this draft permit within the thirty (30) day comment period to the address above. The request for a hearing shall indicate the interest of the party and the reasons why the hearing is warranted. The Department will hold a hearing if it determines there is a significant public interest in the draft permit (WAC 173-220-090). Public notice regarding any hearing will be circulated at least thirty (30) days in advance of the hearing. People expressing an interest in this permit will be mailed an individual notice of hearing (WAC 173-220-100).

Comments should reference specific text followed by proposed modification or concern when possible. Comments may address technical issues, accuracy and completeness of information, the scope of the facility's proposed coverage, adequacy of environmental protection, permit conditions, or any other concern that would result from issuance of this permit.

The Department will consider all comments received within thirty (30) days from the date of public notice of draft indicated above, in formulating a final determination to issue, revise, or deny the permit. The Department's response to all significant comments is available upon request and will be mailed directly to people expressing an interest in this permit.

Further information may be obtained from the Department by telephone, (509) 329-3400, or by writing to the address listed above

The permit and fact sheet amendments were written by Cynthia Wall.

SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions of this permit for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S3.A.	Discharge Monitoring Report	Monthly	July 15, 2004
S5.A.	Certified Operator	1/permit cycle	~~December 31, 2004~~ December 31, 2007
S6.	Groundwater Monitoring Wells	1/permit cycle	~~August 31, 2005~~ August 31, 2008
S7.A.	Ground Water Quality Evaluation Scope of Work	1/permit cycle	~~December 31, 2004~~ December 31, 2007
S7.B.	Ground Water Quality Evaluation Study Report	1/permit cycle	~~July 1, 2005~~ July 1, 2008
S7.C.	Ground Water Monitoring Network	1/permit cycle	~~August 31, 2005~~ August 31, 2008
S8.	Engineering Report (Facility Plan)	1/permit cycle	~~July 1, 2005~~ July 1, 2008
S8.A.	Plans and Specifications	1/permit cycle	~~July 31, 2006~~ July 1, 2009
G8.	Application for permit renewal	1/permit cycle	October 25, 2008

SPECIAL CONDITIONS

S1. DISCHARGE LIMITATIONS

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a concentration in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to discharge wastewater to an infiltration pond at the permitted location ~~subject to the following limitations:~~

	~~EFFLUENT LIMITATIONS~~	
~~Parameter~~	~~Average Monthly[a]~~	~~Maximum Daily[b]~~
~~Flow~~	~~----~~	~~13,000 gpd~~
~~BOD_5~~	~~30 mg/l~~	~~----~~
~~TSS~~	~~30 mg/l~~	~~----~~
~~Total Nitrogen[e]~~	~~10 mg/l~~	~~----~~
~~[a] The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.~~		
~~[b] The maximum daily effluent limitation is defined as the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For other units of measurement, the daily discharge is the average measurement of the pollutant over the day.~~		
~~[e] Sum of organic nitrogen, ammonia, nitrite and nitrate~~		

S2. MONITORING REQUIREMENTS

A. Wastewater Monitoring

The sampling point for the influent will be at the lift station preceding the lagoon discharge.

The Permittee shall monitor the wastewater according to the following schedule:

Parameter	Units	Sample Point	Sampling Frequency	Sample Type
~~Flow~~	~~gpd~~	~~Pump station~~	~~Daily~~	~~As recorded~~
BOD	mg/l	Pump station	Once/month from May to September ~~October~~	Grab
pH	Standard Units	~~Lagoon~~ Pump station	Once/month from May to September ~~October~~	Grab
TKN (as N)	mg/l	Pump station	Once/month from May to September ~~October~~	Grab
NO_3 (as N)	mg/l	Pump station	Once/month from May to September ~~October~~	Grab
FDS	mg/l	Pump station	Once/month from May to September ~~October~~	Grab

B. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets and maintenance-related conditions affecting effluent quality.

Sampling and analytical methods used to meet the water and wastewater monitoring requirements specified in this permit shall conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 or to the latest revision of *Standard Methods for the Examination of Water and Wastewater* (APHA), unless otherwise specified in this permit or approved in writing by the Department of Ecology (Department).

C. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the quantity of monitored flows. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations and at a minimum frequency of at least one calibration per year. Calibration records shall be maintained for at least three years.

S4. FACILITY LOADING

A. Design Criteria

Flows or waste loadings of the following design criteria for the permitted treatment facility shall not be exceeded:

Average flow for the maximum month:	13,000gpd
BOD_5 loading for maximum month:	23.8 lbs/day
TSS loading for maximum month:	23.8 lbs/day

S5. OPERATION AND MAINTENANCE

The Permittee shall at all times be responsible for the proper operation and maintenance of any facilities or systems of control installed to achieve compliance with the terms and conditions of the permit.

A. Certified Operator

An operator certified for at least a Class I plant by the State of Washington shall be in responsible charge of the day-to-day operation of the wastewater treatment plant. An operator certified for at least a Class I plant shall be in charge during all regularly scheduled shifts. By ~~December 31, 2004~~ December 31, 2007, if the lagoon system has not been abandoned, the Water and Sewer District will retain a Class I plant operator.

B. O & M Program

The Permittee shall institute an adequate operation and maintenance program for their entire sewage system. Maintenance records shall be maintained on all major electrical and mechanical components of the treatment plant, as well as the sewage system and pumping stations. Such records shall clearly specify the frequency and type of maintenance recommended by the manufacturer and shall show the frequency and type of maintenance performed. These maintenance records shall be available for inspection at all times.

C. Short-term Reduction

If a Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limitations on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee shall give written notification to the Department, if possible, 30 days prior to such activities, detailing the reasons for, length of time of, and the potential effects of the reduced level of treatment. This notification does not relieve the Permittee of their obligations under this permit.

c. If the bypass is planned and scheduled to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, the Department will approve or deny the request. The public shall be notified and given an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Approval of a request to bypass will be by administrative order issued by the Department under RCW 90.48.120.

3. Bypass For Essential Maintenance Without the Potential to Cause Violation of Permit Limits or Conditions -- Bypass is authorized if it is for essential maintenance and does not have the potential to cause violations of limitations or other conditions of the permit, or adversely impact public health as determined by the Department prior to the bypass.

S6. GROUND WATER MONITORING WELLS

By ~~August 31, 2005~~ August 31, 2008, if the lagoon has not been abandoned, the Permittee shall install monitoring wells in accordance with the approved hydrogeologic study. Well construction shall meet the requirements of Chapters 173-160 and 173-162 WAC.

S7. GROUND WATER QUALITY EVALUATION (HYDROGEOLOGIC STUDY)

If the lagoon is not abandoned, and an alternative drainfield not constructed, the Permittee shall evaluate the impacts of its activities on ground water quality by completing the elements below to include: a scope of work for a ground water quality evaluation study, a ground water quality evaluation study, a report of study results, installation of a ground water monitoring network, and ongoing monitoring.

A. By ~~December 31, 2004~~ December 31, 2007, the Permittee shall submit a scope of work to the Department for a ground water quality evaluation study at the wastewater application site, in accordance with WAC 173-200-080. The scope of work will conform to *Guidelines for Preparation of Engineering Reports for Industrial Wastewater Land Application Systems*, Ecology 1993.

B. Upon approval of the scope of work by the Department, the Permittee shall conduct a study to determine site specific hydrogeologic conditions, well siting, quality control protocols, a sampling plan and sampling protocols. The Permittee shall submit a report of the results by ~~July 1, 2005~~ July 1, 2008.

C. By ~~August 31, 2005~~ August 31, 2008, the Permittee shall begin construction of the ground water monitoring network. Well construction shall be in accordance with Chapter 173-160 WAC.

D. After completion of the installation of the ground water monitoring network, the Permittee shall notify the Department and begin monitoring.

S8. ENGINEERING REPORT (FACILITY PLAN)

No later than ~~July 1, 2005~~ July 1, 2008, should plans to construct a new on-site treatment/disposal system not materialize, two copies of an approvable engineering report shall be prepared by the Permittee in accordance with WAC 173-240 and submitted to the Department for review and approval.

The report shall contain any appropriate requirements as described in the following guidance: "Design Criteria for Municipal Wastewater Land Treatment Systems for Public Health Protection" (Washington State Department of Health, 1994); "Guidelines for Preparation of Engineering Reports for Industrial Wastewater Land Application Systems" (Washington State Department of Ecology, 1993); "Water Reclamation and Reuse Standards" (Washington State Department of Ecology and Department of Health, 1997).

A. Plans and Specifications

No later than ~~July 31, 2006~~ July 1, 2009, the Permittee shall submit to the Department for review and approval two copies of plans and specifications in accordance with WAC 173-240.

B. Construction Quality Assurance Plan

Prior to the start of construction, the Permittee shall submit to the Department a quality assurance plan as required by WAC 173-240.